

REMARKS

Claims 1-22 are pending in this application.

The Examiner requested that Fig. 6 be amended to include a legend indicating it refers to prior art. A corrected Fig. 6 with such a legend is submitted herewith, addressing the objection.

The Examiner objected to page 11, lines 5-7 as confusing due to translation. A correcting amendment is submitted herewith addressing this objection.

Claims 1, 5, 8, 12, 15, and 19 have been objected to because of informalities. Applicants have amended these claims addressing the informalities.

Claims 1, 8, and 13 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of co-pending Application Serial No. 10/092,697. Applicants submit herewith a Terminal Disclaimer To Obviate a Provisional Double-Patenting Rejection. Applicants respectfully submit that the rejection accordingly is rendered moot.

The Examiner's indication that claims 5-7, 12-14, and 19-21 are allowable and would be allowed if rewritten in independent form including all the limitations of the base claim and any intervening claims is acknowledged with appreciation. In order to expedite consideration and allowance of this application, claims 5, 12, and 19 have been rewritten in independent form. Claims 6-7, 13-14, and 20-21 depend from at least one of claims 5, 12, and 19 and therefore also are in condition for allowance.

Claims 1-4, 8-11, 15-18, and 22 have been rejected under 35 U.S.C. 102(b) as being anticipated by Thielecke, U.S. Patent No. 5,719,899 (“Thielecke”). Applicants respectfully traverse.

According to the present invention, a transmission signal includes a known signal and a data signal successively. Accordingly, the known signal and the data signal are separate time-wise, as shown in FIG. 3. Additionally, the present invention includes compensating for a portion of a received signal, which corresponds to the data signal. To compensate for the data signal, transmission path characteristics are used which have been evaluated as compared with a preceding portion of the data signal. Here, the “preceding portion” may be a portion corresponding to a known signal or a data signal that has already been compensated for, demodulated, and modulated.

Thielecke, however, discloses a “known signal” that is a code division multiple access (CDMA) spread code. A “data signal” is a signal spread by the “known signal” (CDMA spread code). *See, e.g.*, Thielecke, column 5, lines 17-34. Accordingly, Thielecke discloses that the “known signal” and the “data signal” are multiplexed time-wise. The data signal is demodulated at the same time the known signal is modulated (inversely spread), and the obtained demodulated signal is used for compensation of the next data signal. Therefore, Thielecke does not disclose using a signal in which a “known signal” and a “data signal” are “successive” (*i.e.*, separate time-wise), a compensation section that compensates for a portion of the received signal which corresponds to the data signal, and using the transmission path characteristics which are estimated by comparing a preceding portion of the received signal with the resultant signal corresponding to the preceding portion of the received signal as claimed.

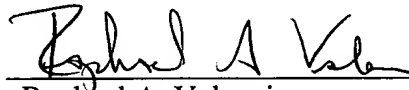
Claims 2-4, 8-11, 16-18, and 22 depend from at least one of independent claims 1, 8, and 15. Therefore, these claims are also allowable for at least the foregoing reasons.

Based on the foregoing, favorable reconsideration and allowance of the claims is solicited. If necessary, the Commissioner is hereby authorized in this and concurrent replies to charge payment (or credit any overpayment) to Deposit Account No. 50-2298 for any additional required fees.

Respectfully submitted,

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Date



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